Claims:

Please amend the claims as follows:

1-2. (Canceled)

- 3. (Previously Presented) The composition of claim 45, wherein the polymer binder comprises a backbone, and said light attenuating compound is bonded to said backbone.
- 4. (Previously Presented) The composition of claim 45, wherein said light attenuating compound is bonded to a linkage unit and said linkage unit is bonded to the polymer binder.
- 5. (Original) The composition of claim 4, wherein said linkage unit comprises a moiety selected from the group consisting of cyclic alkyls, acyclic alkyls, acyclic heteroalkyls, and cyclic heteroalkyls.

6-15. (Canceled)

16. (Previously Presented) The composition of claim 47, wherein said linkage unit comprises a moiety selected from the group consisting of cyclic alkyls, acyclic alkyls, acyclic heteroalkyls, and cyclic heteroalkyls.

17-35. (Canceled)

36. (Original) In a composition for use during microlithographic processes, said composition comprising a polymer binder dissolved in a solvent system, the improvement which comprises a non-aromatic, light attenuating compound comprising a moiety selected from the group consisting of:

(a)

$$R_1$$
 R_2 or R_1 R_2 R_2 R_1 R_2 R_2 R_1 R_2 R_3 R_4 R_4 R_5 R_6 R_7 R_8 R_9 R

where:

- each R₁ is non-aromatic and is individually hydrogen, or an acyclic or cyclic alkyl or heteroalkyl;
- in structure A, where EWG and R₂ do not form a cyclic unit:

 EWG is a non-aromatic electron-withdrawing group; and

 R_2 is non-aromatic and is hydrogen, an acyclic or cyclic alkyl or heteroalkyl, or an electron-withdrawing group; and

• in structure B, where EWG and R₂ form a cyclic electron-withdrawing unit, the cyclic unit comprises a C=O, C=S, or a C=N at a first carbon atom, and: a C=O or a C=N attached to a carbon atom at least two carbon atoms away from the first carbon atom; or an O, S, or N as a member of the ring at least two positions away from the first carbon atom;

where:

- R₁ is non-aromatic and is individually hydrogen, or an acyclic or cyclic alkyl or heteroalkyl;
- EDG is an electron-donating group;
- in structure A, where EWG and R₂ do not form a cyclic unit:

EWG is a non-aromatic electron-withdrawing group; and

 R_2 is non-aromatic and is hydrogen, an acyclic or cyclic alkyl or heteroalkyl, or an electron-withdrawing group; and

in structure B, where EWG and R₂ form a cyclic electron-withdrawing unit, the cyclic unit comprises a C=O, C=S, or a C=N at a first carbon atom, and: a C=O or a C=N attached to a carbon atom at least two carbon atoms away

from the first carbon atom; or an O, S, or N as a member of the ring at least two positions away from the first carbon atom;

where: R_2 is non-aromatic and is individually hydrogen, an acyclic or cyclic alkyl or heteroalkyl, or an electron-withdrawing group; and EWG is a non-aromatic electron-withdrawing group; and

where: R_2 is non-aromatic and is individually hydrogen, an acyclic or cyclic alkyl or heteroalkyl, or an electron-withdrawing group; and EWG is a non-aromatic electron-withdrawing group;

- (b) olefinic moieties of (I), (II), and mixtures thereof; and
- (c) mixtures of (a) and (b),

wherein said polymer binder comprises a backbone, and at least one of R_{-1} and R_2 of said light attenuating compound is bonded to the polymer binder backbone.

37-40. (Canceled)

41. (Previously Presented) In a composition for use during microlithographic processes, said composition comprising a polymer binder dissolved in a solvent system, the improvement which comprises a non-aromatic, light attenuating compound comprising a moiety of

where EWG is a non-aromatic electron-withdrawing group selected from the group consisting of cyanos, iminos, carboxylic acids, carboxylic esters, carboximido, and sulfonyls groups; and

each R1 is individually selected from the group consisting of hydrogen and alkyls, wherein said polymer binder comprises a backbone, and EWG is bonded to said backbone.

42-44. (Canceled)

45. (Previously Presented) In a curable composition for use during microlithographic processes, said composition comprising a polymer binder dissolved in a solvent system, the improvement which comprises a non-aromatic, light attenuating compound which is bonded to the polymer binder and absorbs light at wavelengths of less than about 300 nm in said composition, said light attenuating compound comprising:

carbon atoms C_1 and C_2 double-bonded to one another and carbon atoms C_3 and C_4 double-bonded to one another and wherein C_3 is bonded to C_2 so as to form conjugated double bonds;

an EWG bonded to carbon atom C₁; and

an EDG bonded to carbon atom C_4 , said EDG including a moiety selected from the group consisting of H_3CO , OH, and R_1 -O-, wherein R_1 is non-aromatic and is selected from the group consisting of hydrogen, acyclic and cyclic alkyls, and heteroalkyls.

46. (Previously Presented) In a composition for use during microlithographic processes, said composition comprising a polymer binder dissolved in a solvent system, the improvement which comprises a non-aromatic, light attenuating compound comprising a moiety selected from the group consisting of:

(a)

$$R_1$$
 R_1
 R_2
 R_3
 R_4
 R_5
 R_7
 R_8
 R_9
 R_9

where:

- each R₁ is non-aromatic and is individually selected from the group consisting of cyclic alkyls and acyclic alkyls;
- in structure A, where EWG and R_2 do not form a cyclic unit: $EWG \ is \ a \ non-aromatic \ electron-withdrawing \ group; \ and$ $R_2 \ is \ non-aromatic \ and \ is \ individually \ selected \ from \ the \ group$

consisting of cyclic alkyls and acyclic alkyls;

in structure B, where EWG and R₂ form a cyclic electron-withdrawing unit, the cyclic unit comprises a C=O, C=S, or a C=N at a first carbon atom, and: a C=O or a C=N attached to a carbon atom at least two carbon atoms away from the first carbon atom; or an O, S, or N as a member of the ring at least two positions away from the first carbon atom;

where:

- each R₁ is non-aromatic and is individually selected from the group consisting of cyclic alkyls and acyclic alkyls; and
- EWG is a non-aromatic electron-withdrawing group;

EDG
$$R_1$$
 R_2 or R_1 R_2 R_1 R_2 R_1 R_2 R_1 R_2 R_1 R_2 R_2 R_3 R_4 R_4 R_5 R_5

where:

- each R₁ is non-aromatic and is individually selected from the group consisting of cyclic alkyls and acyclic alkyls;
- EDG is an electron-donating group;
- in structure A, where EWG and R₂ do not form a cyclic unit:

EWG is a non-aromatic electron-withdrawing group other than cyano groups, and R_2 is non-aromatic and is individually selected from the group consisting of cyclic alkyls and acyclic alkyls;

or

EWG is a cyano group, and R_2 is non-aromatic and is individually selected from the group consisting of cyclic alkyls and acyclic alkyls; and

- in structure B, where EWG and R₂ form a cyclic electron-withdrawing unit, the cyclic unit comprises a C=O, C=S, or a C=N at a first carbon atom, and: a C=O or a C=N attached to a carbon atom at least two carbon atoms away from the first carbon atom; or an O, S, or N as a member of the ring at least two positions away from the first carbon atom;
- (b) diolefinic moieties of (III), (IV), (V), and mixtures thereof; and
- (c) mixtures of (a) and (b),

wherein at least one of R_1 and R_2 of said light attenuating compound is bonded to the polymer binder.

47. (Previously Presented) In a composition for use during microlithographic processes, said composition comprising a polymer binder dissolved in a solvent system, the improvement which comprises a non-aromatic, light attenuating compound comprising a moiety selected from the group consisting of:

where:

- each R₁ is non-aromatic and is individually hydrogen, or an acyclic or cyclic
 alkyl or heteroalkyl;
- in structure A, where EWG and R₂ do not form a cyclic unit:
 EWG is a non-aromatic electron-withdrawing group; and
 R₂ is non-aromatic and is hydrogen, an acyclic or cyclic alkyl or heteroalkyl, or an electron-withdrawing group; and
- in structure B, where EWG and R₂ form a cyclic electron-withdrawing unit, the cyclic unit comprises a C=O, C=S, or a C=N at a first carbon atom, and: a C=O or a C=N attached to a carbon atom at least two carbon atoms away from the first carbon atom; or an O, S, or N as a member of the ring at least two positions away from the first carbon atom;

EDG
$$R_2$$
 EDG R_2 Or R_1 EWG (II)

Structure A Structure B

where:

- R₁ is non-aromatic and is individually hydrogen, or an acyclic or cyclic alkyl
 or heteroalkyl;
- EDG is an electron-donating group;
- in structure A, where EWG and R₂ do not form a cyclic unit:

EWG is a non-aromatic electron-withdrawing group; and

 R_2 is non-aromatic and is hydrogen, an acyclic or cyclic alkyl or heteroalkyl, or an electron-withdrawing group; and

• in structure B, where EWG and R₂ form a cyclic electron-withdrawing unit, the cyclic unit comprises a C=O, C=S, or a C=N at a first carbon atom, and: a C=O or a C=N attached to a carbon atom at least two carbon atoms away from the first carbon atom; or an O, S, or N as a member of the ring at least two positions away from the first carbon atom;

$$R_2$$
 EWG , (X)

where: R_2 is non-aromatic and is individually hydrogen, an acyclic or cyclic alkyl or heteroalkyl, or an electron-withdrawing group; and EWG is a non-aromatic electron-withdrawing group; and

$$R_2$$
 EWG
 (XI)

where: R_2 is non-aromatic and is individually hydrogen, an acyclic or cyclic alkyl or heteroalkyl, or an electron-withdrawing group; and EWG is a non-aromatic electron-withdrawing group;

- (b) olefinic moieties of (I), (II), and mixtures thereof; and
- (c) mixtures of (a) and (b),

wherein at least one of R_1 and R_2 of said light attenuating compound is bonded to a linkage unit and said linkage unit is bonded to the polymer binder.